

Claims

- [1] An apparatus for performing a finger-pressure treatment on a body part, the apparatus comprising:
- a first finger-pressure rod to be in contact with one surface of the body part;
 - a second finger-pressure rod for applying press on an opposite surface of the body part substantially opposite to said one surface;
 - a driving unit for generating a rotational force;
 - a rotation axle connected to an end portion of the second finger-pressure rod, for transmitting the rotational force of the driving unit to the second finger-pressure rod;
 - an elastic member which is connected to an end portion of the first finger-pressure rod and applies an elastic force to the first finger-pressure rod in such manner that the first finger-pressure rod is rotated in a first direction opposite to a second direction in which the press of the second finger-pressure rod applied on the body part; and
 - a mounting plate on which the rotation axle is rotatably mounted and the elastic member is mounted,
- wherein the rotation axle is rotatably inserted into the end portion of the first finger-pressure rod, so that the rotational force of the driving unit is prevented from being transmitted to the first finger-pressure rod.
- [2] The apparatus of claim 1, further comprising:
- a detection unit mounted on the mounting plate, for generating a signal when the first finger-pressure rod rotates at more than a preset angle in the second direction; and
 - a controller for controlling the driving unit by receiving the signal of the detection unit,
- wherein if the controller receives the signal of the detection unit, the controller controls the driving unit to rotate the second finger-pressure rod in the first direction.
- [3] The apparatus of claim 2, further comprising:
- a stopper mounted on the mounting plate, for preventing the first finger-pressure rod from rotating at more than a preset angle in the first direction,
- wherein the elastic member elastically biases the end portion of the first finger-pressure into engagement with the stopper.
- [4] The apparatus of claim 3, further comprising:
- an adjusting unit for controlling the elastic force of the elastic member constituted by a spring by adjusting a length of the spring,

wherein a level of the press applied by the second finger-pressure rod on the body part is controlled by using the adjusting unit.

- [5] The apparatus of claim 3, further comprising:
an opening detection unit mounted on the mounting plate, for generating, when the second finger-pressure rod rotates at more than a preset angle in the first direction, a signal and then transmitting the signal to the controller,
wherein in case the controller receives the signal of the opening detection unit, the controller controls the driving unit to stop a rotation of the second finger-pressure rod.
- [6] The apparatus of claim 5, further comprising:
a switch electrically connected to the controller,
wherein in case a user turns on the switch, the controller controls the driving unit to rotate the second finger-pressure rod in the first direction.
- [7] The apparatus of claim 3, further comprising:
a reduction unit for transmitting the rotational force of the driving unit to the rotation axle,
wherein the reduction unit constituted by a plurality of gears increases the rotational force of the driving unit and reduces a rotation speed thereof.
- [8] The apparatus of claim 7, wherein the reduction unit has a worm gear assembly and, further, a worm of the worm gear assembly is attached to a rotator of the driving unit, the rotator of the motor being installed in substantially parallel to a plane on which the first and the second finger-pressure rod rotate.
- [9] The apparatus of claim 3, wherein the first finger-pressure rod has a finger-pressure plate to be in contact with the body part, the finger-pressure plate rotatably connected to a free end portion of the first finger-pressure rod.
- [10] The apparatus of claim 3, wherein the second finger-pressure rod has a finger-pressure tip attached to a free end portion of the second finger-pressure rod, the finger-pressure tip accommodating a vibration unit for generating vibration therein.